Guadalupe-San Antonio, and Nueces basin and bay areas. Note: Highlighted rows indicate studies in the Trinity-San Jacinto basin-bay area. Table 1. Environmental flow studies selected for funding to support adaptive management in the Trinity-San Jacinto, Brazos, Colorado-Lavaca,

\$1,499,387		Total for environmental flow studies for adaptive management	To
\$75,000	Environmental Institute of Houston (Contract Executed–1800012239)	13 Analysis of the riverine estuary of the Brazos basin	13
\$75,000	Guadalupe-Blanco River Authority (Contract Executed-1800012267)	12 Guadalupe delta ecological assessment of freshwater inflows	12
\$75,000	Lower Colorado River Authority	Initial data gathering to implement groundwater-surface water interaction field work from GAM improvements study	11
\$75,000	RFQ-580-18-0068	10 Development of freshwater inflow/biological indicator relationship for Lavaca Bay	10
\$75,000	Trinity River Authority (Contract Executed-1800012226)	9 Trinity River Senate Bill 3 flow assessment, phase III	9
\$75,000	LRE Water, LLC (Contract Executed-1800012283; Awarded via RFQ-580-18-0070)	8 Evaluation of rainfall/runoff patterns in the upper Colorado-Lavaca river basin, phase II	8
\$82,387	University of Texas at Austin (Contract Executed–1800012195)	7 Building and testing the Trinity River delta hydrodynamic model	7
\$100,000	Texas A&M University Corpus Christi (Contract Executed-1800012228)	6 Influence of freshwater inflow gradients on estuarine nutrient-phytoplankton dynamics in the three estuaries (Guadalupe, Nueces, and Upper Laguna Madre)	6
\$100,000	University of Texas Marine Science Institute	Assessing the effects of freshwater inflows and other key drivers on the population dynamics of oysters and sport finfish in four estuaries (Colorado-Lavaca, Guadalupe-San Antonio, Mission-Aransas, and Nueces)	5
\$135,000	Harte Research Institute (Contract Executed-1800012223)	Using comparative long-term benthic data for adaptive management of freshwater inflow to three estuaries (Colorado-Lavaca, Guadalupe, and Nueces)	4
\$150,000	U.S. Geological Survey	3 Monitoring of nutrient and sediment loads from the Trinity-San Jacinto and Guadalupe-San Antonio river basins into Galveston and San Antonio bays	ω
\$237,000	RFQ-580-18-0069	2 Statewide synthesis of environmental flow studies from 2014–2017	2
\$245,000	RFQ-580-18-0067	1 Environmental flows validation in three river basins (Brazos, Colorado-Lavaca, and Guadalupe-San Antonio)	Н
Budget	Cooperator	# Study topic	#

Table 2. Environmental flow studies supporting TWDB Bays and Estuaries and Instream Flow programs.

\$500,613		Total for agency programs
\$30,013	Not applicable	Data collection equipment
\$50,000	U.S. Geological Survey (Contract Executed-1800012253)	Suspended sediment sampling at TCEQ environmental flows measurement points in four river basins (Trinity, Brazos, Colorado, and Brazos)
\$50,000	Bureau of Economic Geology (Contract Executed-1800012220)	Specialized (bathymetric) LiDAR data collection of the Frio River for use in geomorphic model development
\$50,000	U.S. Army Corps of Engineers (Contract Executed-1800012263)	Training and support for measuring bedload sediment transport in large, sand-bedded rivers and hydraulic modeling support
\$50,000	U.S. Army Corps of Engineers	Development of an environmental flows hydrology model of the Brazos River
\$54,635	The University of Texas – Arlington (Contract Executed–1800012276)	Improving rainfall-runoff simulation in ungauged coastal watersheds
\$95,365	U.S. Geological Survey	Monitoring of nutrient and sediment loads from the Colorado and Nueces river basins into Matagorda and Corpus Christi bays
\$120,600	Texas Parks and Wildlife Department (Contract Executed-1800012170)	Estuarine water quality monitoring (Datasonde Program)
Budget	Cooperator	Study topic